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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/774,292	02/06/2004	Paola Demartini	1890-0046 5468		
7590 11/30/2004			EXAMINER		
Maginot, Moore & Beck			YOUNG, BRIAN K		
Bank One Tow 111 Monument		ART UNIT	PAPER NUMBER		
Indianapolis, I	N 46204	2819			
			DATE MAILED: 11/30/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	Ma	Annlinantia				
	•	Application No.		Applicant(s)				
,	055 4 5 0	10/774,292 DEMARTINI ET A						
	Office Action Summary	Examiner		Art Unit	0 /			
		Brian Youn	*	2819				
Period fo	The MAILING DATE of this communication app or Reply	pears on the (cover sheet with the d	orrespondence add	iress `			
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no even y within the statute will apply and will e, cause the applic	t, however, may a reply be tin ory minimum of thirty (30) day expire SIX (6) MONTHS from ation to become ABANDONE	nely filed rs will be considered timely, the mailing date of this cor D (35 U.S.C. & 133).	mmunication.			
Status	•							
1) 又	Responsive to communication(s) filed on 06 Fe	ebruary 2004	1.					
	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Diamaniti		-x parte Qua	yio, 1000 O.D. 11, 40	<i>3</i> 0.0.213.				
	ion of Claims							
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 33 and 34 is/are rejected. 7) Claim(s) 21-32 and 35-40 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Applicati	ion Papers							
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>06 February 2004</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to oath or declaration is objected to by the Ex	e: a)⊠ acce drawing(s) be tion is required	held in abeyance. See if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF	R 1.121(d).			
Priority ι	under 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been s have been rity documen u (PCT Rule	received. received in Applicati ts have been receive 17.2(a)).	on No ed in this National S	Stage			
Attachmen	t(s)							
1) Notic 2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 9/2/04.	5	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	ate	-152)			

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1. The drawings are objected to because in figure 2, elements 2-4 are drawn as AND gates, but referred to as OR gates. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended."

- 2. Claims 21-32 and 38-40 are objected to because of the following informalities: independent claims 21 and 38 recite "a second number of multiplexer circuits" which misleading because there is no "first" number cited. Further, the claims refer to "OR" gates, however, as noted above "AND" gates are shown in the figures. Appropriate correction is required.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 33 and 34 are rejected under 35 U.S.C. 102(e) as being anticipated by Brooks et al.

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Brooks et al discloses (fig.5) method for converting a binary input signal (304) corresponding to a thermometer code (see col. 10, lns. 14-16) "one of ordinary skill in the art should appreciate that the digital input signal 304 can alternatively be a signed binary input or a *thermometer*-code input") into a binary output code (308 a-d), the method comprising: (a) receiving an n-bit thermometer code (304); (b) dividing the n-bit thermometer code into m segments (exq0-4); (c) performing a logic operation on bits of at least the m-I more significant segments to generate at least m-I output signals, summing the output signals (bit shufflers 502a-d), (e) multiplexing (MUX 506) sets of bits of different segments wherein part of the output code is used as multiplex selection signal (xeq4:xeq0); and adding the multiplexed output signals (510). Applicant (fig.2) and Brooks et al (fig.5) show how AND are gates used to achieve the code conversion.

- 5. Claims 21-32 and 38-40 would be allowable if amended to correct the objections noted above.
- 6. Claims 35-37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Knierim teaches a thermometer to binary encoder.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Young whose telephone number is 571-272-1816. The examiner can normally be reached on Mon-Fri 7:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Tokar can be reached on 571-272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

rt Unit 2819
